

Waveguide Dual Bandpass Filter, Ka Band, 24.75 to 38.25 GHz

SWF-25301340-28-B2-D is a Ka band waveguide, dual bandpass filter with passband frequencies from 24.25 to 25.25 GHz and 36.25 GHz to 40.0 GHz and rejection frequencies from DC to 23.8 GHz, 27.0 to 35.5 GHz, and 42.0 to 49.0 GHz. The filter is designed for 5G frequency bands and 24 GHz and 38 GHz system applications, particularly. The nominal insertion loss of the bandpass filter is 3.0 dB and the typical rejection is 40 dB. Since the passband frequencies can be changed by modifying the design, custom designs can be offered under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	24.25 GHz		25.25 GHz
Passband Frequency 2	36.25 GHz		40.00 GHz
Passband Insertion Loss		3.0 dB	
Passband Ripple		±1.0 dB	
Rejection Frequency 1	DC		23.8 GHz
Rejection Frequency 2	27.0 GHz		35.5 GHz
Rejection Frequency 3	42.0 GHz		49.0 GHz
Rejection		40 dB	
Return Loss		14.0 dB	
Power Handling			10 Watts
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide	WR-28 Waveguide with UG-599/U Flange
Material	Brass
Finish	Gold Plated
Weight	12.6 Oz
Size	6.50" (L) X 0.75" (W) X 0.75" (H)
Outline	WF-BA-D-6.5-SX1

ECCN

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FEATURES

- Dual Passband, 24 GHz and 38 GHz
- Waveguide Interface
- High Rejection

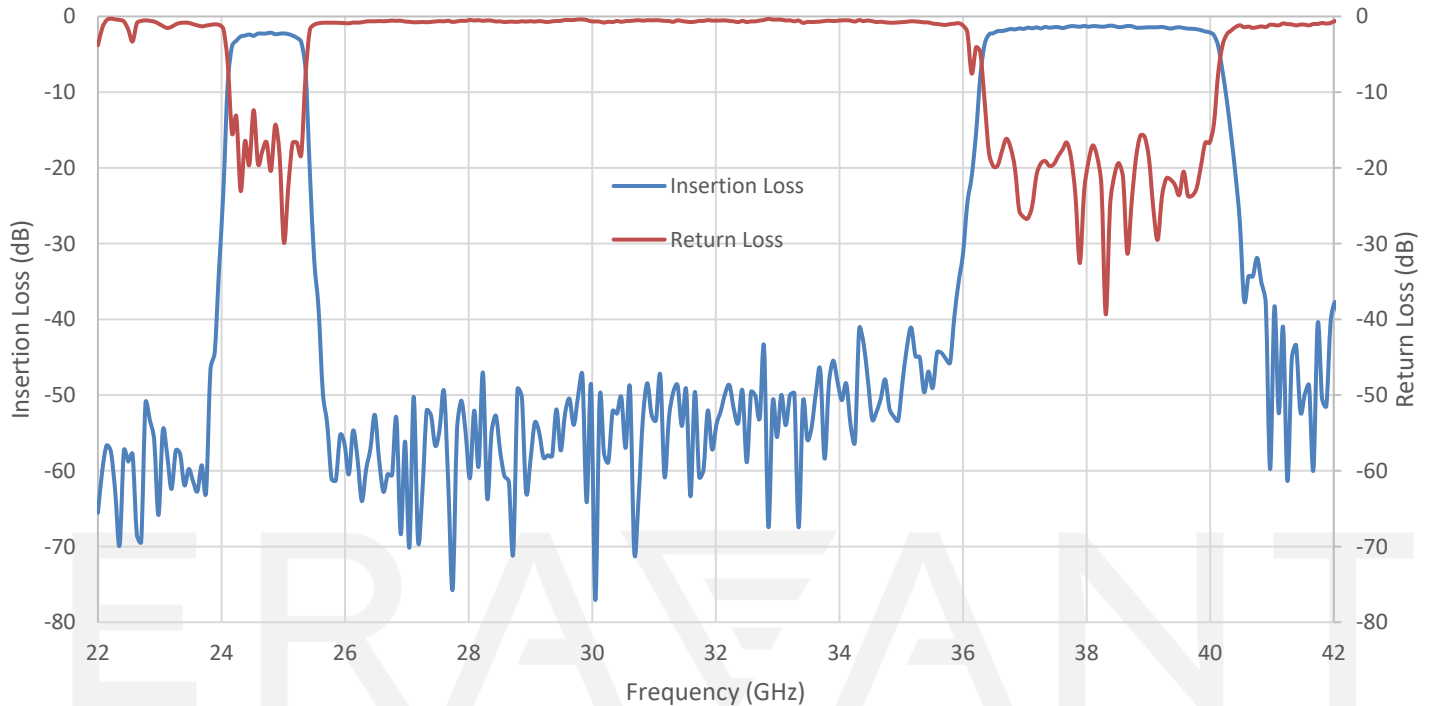
APPLICATIONS

- 5G Systems
- Communication Systems
- Sub-assemblies

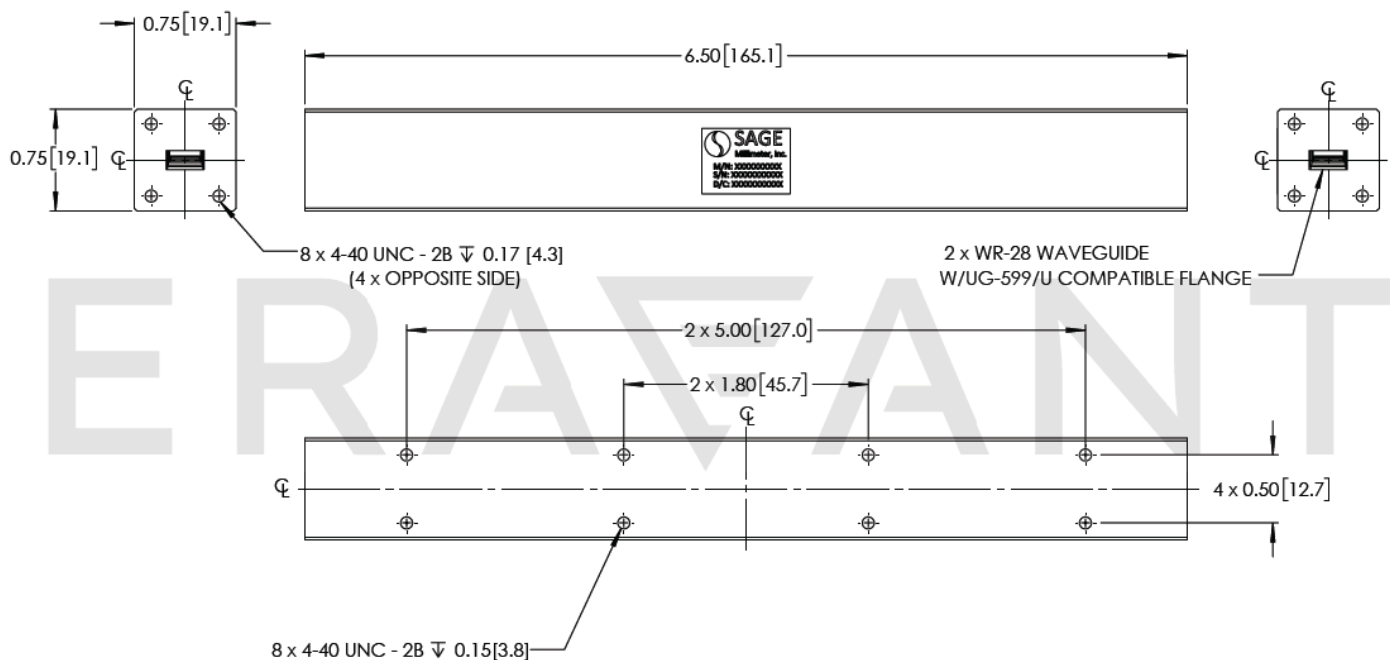
SUPPLEMENTAL DETAILS



Typical Insertion Loss & Return Loss vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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